



**Battery
Box**

BATTERYBOX PREMIUM HVS



KEY FEATURES



Safety

LFP cells developed in-house
Proven in millions of EVs



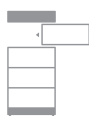
Reliability

LFP expertise since 2002
1M+ systems in 100+ countries



High Performance

High efficiency certified by HTW Berlin
High-power backup function



Flexibility

Modular design
Expandable anytime



Easy Installation

Patented internal plug connection
Quick set-up



Perfect Compatibility

Compatible with leading single
& three phase inverters

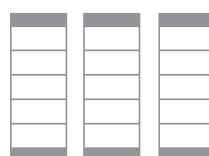
BATTERYBOX PREMIUM HVS



HVS 5.1



HVS 12.8



3 x HVS 12.8

Maximum capacity of

38.4 kWh



TECHNICAL PARAMETERS PREMIUM HVS



HVS 5.1



HVS 7.7



HVS 10.2



HVS 12.8

PERFORMANCE

Battery Module	HVS (2.56 kWh, 102.4 V, 38 kg)			
Number of Modules	2	3	4	5
Usable Energy ^[1]	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh
Max Output Current ^[2]	25 A	25 A	25 A	25 A
Peak Output Current ^[2]	50 A, 3 s	50 A, 3 s	50 A, 3 s	50 A, 3 s
Nominal Voltage	204.8 V	307.2 V	409.6 V	512 V
Operating Voltage	160 - 240 V	240 - 360 V	320 - 480 V	400 - 600 V
Dimensions(H/W/D)	762 x 585 x 298 mm	995 x 585 x 298 mm	1228 x 585 x 298 mm	1461 x 585 x 298 mm
Weight	91 kg	129 kg	167 kg	205 kg

GENERAL DATA

Operating Temperature	-10°C to +50°C
Battery Type	Lithium Iron Phosphate (LiFePO ₄)
Communication	CAN / RS485
Protection Rating	IP55
Round-trip Efficiency	≥ 96%
Environment	Indoor / Outdoor
Mounting Method	Floor Stand
Certification	VDE2510-50 / IEC62619 / CEC / CE / UN38.3
Applications	ON Grid / ON Grid + Backup / OFF Grid
Warranty ^[3]	10 Years
Compatible Inverters	      

[1] DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at + 25°C. System Usable Energy may vary with different inverter brands.

[2] Power derating will occur between -10°C and +5°C.

[3] Conditions apply. Refer to BYD Battery-Box Premium Limited Warranty Letter.